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March 18, 2002

William Caton
Acting Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

*Re: Application by Verizon New England for Authorization To Provide In-Region,
InterLATA Services in Vermont, CC Docket No. 02-7*

Dear Mr. Caton:

This ex parte responds to a number of different questions from staff.

1. As an initial matter, Verizon has demonstrated previously that the UNE rates set by the Vermont Board, and all inputs underlying those rates, are TELRIC-compliant. *See, e.g.*, Declaration filed by V. Louise McCarren, Patrick A. Garzillo, and Michael J. Anglin (“McCarren/Garzillo/Anglin Declaration”) ¶¶ 13-22. The Vermont Board conducted a thorough and comprehensive examination of UNE rates, which included review of written testimony, *see id.* ¶¶ 14-15, twelve days of technical hearings, *see id.* ¶ 15, and briefing by participating parties, *see id.* ¶ 16. The Board issued a detailed order addressing pricing issues on February 4, 2000, *see App. E, Tab 7*, and Verizon filed revised cost studies and SGAT pages reflecting the Board’s Order. *See McCarren/Garzillo/Anglin Declaration* ¶¶ 18-20. The PSC formally approved these rates on August 23, 2000. *See id.* ¶ 21; App. E, Tab 8.

Just as this is true of the rates set by the Board generally, it is equally true of the switching rates set by the Board. In fact, while this Commission has held that it is appropriate to use a mix of new and growth switch discounts in computing TELRIC rates, the Vermont Board set switching rates based on the assumption of all new switches priced at the deeper discount for new switches. *See February 4 Order* at 24. (App. E, Tab 7.) In other words, the assumptions used by the Vermont Board produced lower costs than would be produced by the assumptions this Commission has previously found to be TELRIC-compliant.

2. Despite this fact, some parties have suggested that the switching rates set by the Vermont Board cannot be relied on because they are somehow too old. Their arguments are misplaced.

First, no party has asked the Board to revisit that rate. In fact, the long distance carriers who now complain about the switching rate chose not to ask the Board to reconsider the rate, chose not to appeal the rate, and chose not to ask the Board to initiate a proceeding to revisit the rate. If the long distance carriers believe it is now timely to revisit those rates, they can petition the Vermont Board to do so. They should not be allowed to challenge that rate for the first time in the context of a section 271 application. *See, e.g., Public Notice, Updated Filing Requirements for Bell Operating Company Applications Under Section 271 of the Communications Act* (March 23, 2001) at 5 (requesting that parties ensure that “disputes are brought before and addressed by the relevant state commission prior to” commencement of the section 271 process). In contrast, allowing the long distance carriers to dredge up any rate-related issue they like, no matter how small, would be utterly unworkable. It is simply not practicable to conduct the equivalent of a state rate case in the context of a 90-day 271 review. *See, e.g., AT&T Corp. v. FCC*, 220 F.3d 607, 631 (D.C. Cir. 2000) (noting that “allowing collateral challenges could change the nature of section 271 proceedings from an expedited process focused on an individual applicant’s performance into a wide-ranging, industry-wide examination of telecommunications law and policy”). Consequently, the long distance carriers should not be allowed to raise issues here that have not been presented first to the state commissions – the entities who are charged by the Act with setting specific rates to begin with. *See, e.g., 47 U.S.C. § 252(c)(2)* (giving state commissions the primary role to “establish . . . rates for interconnection, services, or network elements.”); *AT&T Corp. v. Iowa Utils. Bd.*, 525 U.S. 366, 385 (1999) (state commissions are charged with “assur[ing] compliance with the pricing standards in subsection [252(d)]”).

Second, the Vermont Board unquestionably followed TELRIC principles and set the switching rates based upon the best information that was available to it at the time. Even if the passage of time has resulted in additional information that could be considered in a new proceeding to review those rates, that does not make the existing rates any less TELRIC compliant. As the D.C. Circuit has held, “[i]f new information automatically required rejection of section 271 applications,” such applications “could [never] be approved in this context of rapid regulatory and technological change.” *AT&T*, 220 F.3d at 617-18; *see also Rhode Island Order* ¶ 31; *New York Order* ¶ 247. Instead, if the long distance carriers believe they have information that warrants revisiting the Board-set rates, then the appropriate course is to present that information in a petition to the Vermont Board.

In the meantime, however, there is no question that the Vermont Board adhered to TELRIC principles, and its specific rate determinations are entitled to deference. *See, e.g., Kansas/Oklahoma Order* ¶ 59 (The FCC “will not conduct a *de novo* review of a state’s pricing determinations and will reject an application only if ‘basic TELRIC principles are violated or the state commission makes clear errors in factual findings on matters so substantial that the end result falls outside the range that the reasonable application of TELRIC principles would produce.’” (quoting *New York Order* ¶ 244)).

3. AT&T also argues for the first time here that the rates set by the Vermont Board are somehow defective because they assume the use of Lucent 5ESS switches. No party raised this issue during the state TELRIC proceeding. No party raised this issue in an appeal of the TELRIC proceeding. In fact, as noted above, no party appealed *any* part of the Vermont Board's TELRIC proceeding. And no party raised this issue at any time since the Board concluded its TELRIC proceeding, including during the course of the state 271 proceeding. Under these circumstances, this Commission should not even entertain AT&T's arguments on this issue given its utter failure to raise them in the proper forum.

AT&T's criticisms, in any case, are flawed. The Nortel DMS100 digital switch is neither newer, nor better, than the Lucent 5ESS switch. To the contrary, the 5ESS was developed and introduced to the market *after* the DMS100 product, and incorporates a more advanced distributed switching architecture. Moreover, the Lucent 5ESS switches are much better suited for Vermont than Nortel switches due to the rural nature of Vermont. *See Application by Verizon New England For Authorization to Provide In-Region, InterLATA Services in Vermont* at 75-77 (Jan. 17, 2002) (explaining that Vermont is the most rural state in the country). Significantly, Lucent's remote switching capability is far superior than the remote switching capability of the Nortel switch. This capability is critically important to a state like Vermont, which is unusually rural. *See, e.g.,* Reply Brief and Reply Declaration filed by V. Louise McCarren, Patrick A. Garzillo, and Michael J. Anglin ("McCarren/Garzillo/Anglin Reply Declaration") ¶ 8 (noting low line density in Vermont).

In rural areas such as Vermont, Verizon typically deploys a "host" switch housed in a large central office that communicates with "remotes" housed in smaller central offices closer to end users' premises. This architecture is efficient because end users tend to be somewhat dispersed. In such circumstances, without the use of a remote, Verizon would either have to employ very long loops to reach customers or many large "host" central offices that served relatively few end users. Use of a remote allows Verizon to establish smaller "remote" centers that can group end users together. Given the benefits of a host/remote architecture in Vermont, the Lucent 5ESS switch is preferable to other switches. Lucent 5ESS remote switches retain almost all the functionality of a host and therefore can provide all of the same services provided by the host switch. The Lucent 5ESS switch, among other things, can trunk calls directly from remotes. The Nortel DMS switch cannot perform such tasks.

For these reasons, Verizon has deployed Lucent 5ESS switches ubiquitously in the Vermont network – as it has in similar areas throughout its footprint, including New Hampshire, West Virginia, and rural sections of New York – and intends to continue to use Lucent 5ESS switches in these areas for the foreseeable future. In fact, even if Verizon built its entire network from scratch today (which contrary to the CLECs' claims is not the appropriate TELRIC standard), it would still choose to deploy Lucent 5ESS switches in Vermont given the rural nature of the state.

Verizon's exclusive use of Lucent switches in the Vermont cost studies therefore reflects the best forward-looking technology and complies with TELRIC principles. *See generally New York Order* ¶ 244 ("[W]hile TELRIC consists of methodological principles for setting prices,

states retain flexibility to consider local technological [and] environmental ... conditions.” (internal quotation marks omitted)).

4. Not only do the Vermont rates reflect the use of the most efficient choice of switches and switching architecture, but, contrary to the claims of some parties, they also reflect the benefits of competitive bidding. The switch discounts in Verizon’s cost studies, which the Vermont Board dramatically increased to reflect all new switch purchases, were taken from the Lucent contract then in effect across the entire NYNEX region. Verizon’s Lucent prices were therefore competitively leveraged by the *total* volume of Verizon business with Lucent throughout this region. And because Lucent knows that it is competing with Nortel and Siemens for Verizon’s business in other states that do install Nortel/Siemens switches, Verizon’s Lucent prices reflect this competitive bidding.

5. In addition, the Commission can take additional comfort that the rates at issue here are well within the range of reasonableness from the fact that the combined loop and non-loop rates set by the Vermont Board are substantially *lower* (relative to cost) than the newly established New York rates that AT&T and others have argued should be the standard. As Verizon has explained earlier in the proceeding, although CLECs sometimes purchase loops alone, CLECs only purchase non-loop elements in combination with loops. *See McCarren/Garzillo/Anglin Reply Declaration* ¶¶ 46-53. Moreover, the Commission previously has explained that it is appropriate to compare the rates for elements that are purchased together on a combined basis. *See, e.g., Massachusetts Order* ¶ 25. Thus, while it is appropriate to benchmark loops alone -- because they are purchased separately -- non-loop rates can properly be analyzed in combination with loop rates -- because they are purchased in combination. *See, e.g., id.* ¶¶ 46-53; *Massachusetts Order* ¶ 25 (explaining rationale for benchmarking various non-loop elements together). And as Verizon has demonstrated, its Vermont loop and non-loop rates combined not only satisfy the benchmark test against the “new” New York rates, but are in fact about 35% lower than the maximum combined rate that would be permitted by such analysis. *See McCarren/Garzillo/Anglin Reply Declaration* ¶¶ 50-52.

6. Installation Factor – With respect to the vintage of data used to calculate engineering, furnished and installed (“EF&I”) factors, the cost studies submitted in the state proceedings used 1995 data from its Detailed Continuing Property Record (“DCPR”) database to develop these factors. The Vermont Board found that there was *no* “plausible evidence” presented during the TELRIC proceeding “to suggest that the [data on which Verizon’s EF&I factor was based] are not representative of expected future costs.” *February 4 Order* at 28. (App. E, Tab 7.)

No party has since asked the Vermont Board to reconsider or reopen its decision on this issue. Nor, as noted above, does the fact that there might be additional information available today make the existing rates any less TELRIC compliant. On the contrary, while some inputs used to determine a particular rate may go down over time, others will go up. Again, moreover, the D.C. Circuit recognized that “[i]f new information automatically required rejection of section 271 applications,” such applications “could [never] be approved in this context of rapid regulatory and technological change.” *AT&T*, 220 F.3d at 617-18. For all the reasons outlined above, therefore, if the long distance carriers believe that there is a reason to revisit this or other

inputs used by the Vermont Board to set the switching rates, then they should include it in a petition to the Vermont Board. They should not be permitted to raise it for the first time in the context of a section 271 proceeding.

7. DUF Rates – Likewise, no party has challenged the rates set by the Vermont Board for the daily usage feed, or DUF, nor have they asked the Board to set new DUF rates. This is true even though the CLECs knew well before the Vermont 271 proceeding that Verizon had proposed lower DUF rates in the New York UNE cost proceeding. Again, as explained above, a CLEC should be not able to raise pricing issues during a 271 proceeding that it did not first raise before the state commission.

Moreover, the rates set by the Vermont Board reflected the best information that was available at the time it conducted its TELRIC proceeding and that decision is entitled to substantial deference. Verizon developed its Vermont DUF rates using data gathered in 1996. These rates reflect the costs of the computer hardware and software required to create the usage information by carrier, and then transmit it to the carrier. To develop these costs, Verizon first identified the steps required to create and transmit usage information, and then used actual measurements and made other assumptions regarding the amount of computer processing needed to perform these steps.

The DUF rates Verizon recently proposed in New York and Massachusetts were developed using essentially the same methodology; however, the estimate of the amount of time required to process a CLEC's request for usage information is now shorter, resulting in lower costs. This merely reflects the fact that additional information is now available based on experience since the rates were initially set. But, as Verizon explained in its Reply Brief, the fact that Verizon's DUF rates are based on data from 1996 is irrelevant to whether the rates are TELRIC-compliant. Reply Brief at 23-24. Nor does the fact that additional information would be available if the Vermont Board reviewed the rates require rejection based on the existing rates. *AT&T*, 220 F.3d at 617-18; *see also Rhode Island Order* ¶ 31; *New York Order* ¶ 247. If CLECs believe that the Vermont rates should now be modified, they should raise that with the Vermont Board. A section 271 application is not the appropriate context for a CLEC to raise for the first time a claim that a rate should be lower.

Moreover, the DUF rates may not be viewed in isolation. The cost of providing other UNEs and services has *increased* – a fact the CLECs conveniently ignore. Thus, it would be inappropriate to require Verizon to lower the DUF rates because costs have decreased, yet keep in place rates for other UNEs and services whose costs have increased. Finally, the DUF rate that the Commission just approved in the *Rhode Island Order* is almost identical to the rate in Vermont. *See McCarren/Garzillo/Anglin Reply Declaration* ¶ 29.

The staff also asked whether the new DUF rates proposed in New York were developed using regionwide data. These rates reflect data from throughout the former Bell Atlantic North (previously "NYNEX") region. The Bell Atlantic South states use a different methodology to develop DUF rates because customer usage information is processed differently in the former Bell Atlantic North and Bell Atlantic South jurisdictions.

8. Busy Hour Assumptions – The following data was used in Verizon’s switching cost studies: The total busy hour minutes of use figure in Vermont is 2,518,111. This figure can be found at be found at Column C, line 2 of the “Fixed Loc. Usage STATEWIDE” and “Variable Local STATEWIDE” tabs of the spreadsheet appended hereto as Attachment 1. The total busy day minutes of use -- derived through Verizon’s actual observation of a busy hour in a busy day in a busy month, *see McCarren/Garzillo/Anglin Reply Declaration* ¶ 32 -- is 25,181,110. This figure is computed by dividing the total busy hour minutes by the busy-hour-to-day ratio, which, as shown on tab “George EO ANN,” Column C, line 1 of Attachment 2, equals 0.10. Finally, the cost per busy-hour minute of use is \$0.004003. This number is derived by taking the sum of “Total TELRIC Cost per MOU” (\$0.003374), “Total Common Cost per MOU” (\$0.000116), and “Total Directly Attributable Joint Cost per MOU” (\$0.000768) from lines 3, 6, and 9 of the “Total Loc. Sw. Usage STATEWIDE” tab in Attachment 2, and multiplying the total (\$0.004258) by 0.94 to reflect a Board-ordered 6% reduction.

Verizon has previously explained why its busy hour assumptions are TELRIC-compliant. Reply Brief at 23; *McCarren/Garzillo/Anglin Reply Declaration* ¶¶ 30-34. Verizon calculates total minutes of use in the busy hour, and then extrapolates from the busy hour to determine the total annual minutes of use over which it must spread its switch investment costs. Because Verizon’s starting point is not an *average* hour but rather a *busy* hour in a *busy* day in a *busy* month, *see id.*, it would be inappropriate to multiply that busy hour usage over *all* days in a year, as that approach would substantially overstate annual usage and, in turn, understate the per-minute cost of switching. Use of 251 days, rather than 365, balances the use of the *busy* hour and results in a more accurate estimate of annual usage. *See id.*

The twenty-page limit does not apply as set forth in DA 02-111. Please let me know if you have any questions.

Sincerely,



cc: J. Veach
J. Stanley
G. Remondino

VERMONT

Port Investments From SCIS

	Zone 1	Zone 2	Zone 3	Zone 4
Port Type				
Analog	Link to Unit	Link to Units	Link to Unit	Link to Units
Digital	Link to Unit	Link to Units	Link to Unit	Link to Units
Coin	Link to Unit	Link to Units	Link to Unit	Link to Units
Trunk	Link to Unit	Link to Units	Link to Unit	Link to Units
BRI	Link to Unit	Link to Units	Link to Unit	Link to Units
PRI	Link to Unit	Link to Units	Link to Unit	Link to Units

Tandem Port 280.153 (No Density Zone Split)

	<u>Factors</u>	Avg.
Digital Line Fill	Engineering	0.7200
Analog Line Fill	Engineering	0.8100 utilization is reflected in the scis offices
Trunk Fill	Engineering	0.9000 not in the worksheets like Mass
Tandem Fill	Engineering	0.9500
Feature Utilization	Engineering	0.9000
Installation	WP - Part B, Pg. 74	1.5424
Power	WP - Part B, Pg. 74	0.1092

	Avg	Urban	Suburban	Rural
See CCF References Below				
Land & Bldings	0.1256	0.1256	0.1256	0.1256
Joint CCF	0.0422	0.0422	0.0422	0.0422
Switching CCF	0.181	0.181	0.181	0.181
Buildings CCF	0.2206	0.2206	0.2206	0.2206
Common	0.0064	0.0064	0.0064	0.0064
<u>Time of Day References (see George Tabs for Data)</u>	<u>Day</u>			
George EO Annual.	WP - Part B, Pg. 75			
George Tandem Annual	WP - Part B, Pg. 76			

CCF References

Average	EXH - Part E
City	EXH - Part E
Urban	EXH - Part E
Suburban	EXH - Part E
Rural	EXH - Part E
	WP - Part B, Pg.

RTUs (data now in RTU tab)

RTU Lines	Link to RTU Sheet
RTU Trunks	Link to RTU Sheet
RTU Coin	Link to RTU Sheet
RTU ISDN BRI	Link to RTU Sheet
RTU ISDN PRI	Link to RTU Sheet
RTU Tandem	Link to RTU Sheet

Workpaper References

WP - Part B, Pg. 83	RTU Tab
WP - Part B, Pg. 85	Unit Tab
WP - Part B, Pg. 84	E O Switch Tab
WP - Part B, Pg. 86	Tdm Switch Tab
WP - Part B, Pg. 89	Feature Cost Tab
WP - Part B, Pg. 87	MOU Tab

[Link to AHD](#)

Local Switching Costs
End Office
Statewide

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Line Ports - per Line						
Analog	Pg. 1	\$ 0.87	\$ 0.20	\$ 0.03	\$ 1.10	\$ 1.03
Digital	Pg. 2	\$ 0.87	\$ 0.20	\$ 0.03	\$ 1.10	\$ 1.03
ISDN - BRI	Pg. 3	\$ 10.51	\$ 2.39	\$ 0.36	\$ 13.27	\$ 12.47
Trunk Ports - per Trunk						
Digital	Pg. 4	\$ 1.78	\$ 0.40	\$ 0.06	\$ 2.24	\$ 2.11
ISDN - PRI	Pg. 5	\$ 141.91	\$ 32.30	\$ 4.90	\$ 179.10	\$ 168.36
Trunk Ports - per MOU						
AHD	Pg. 6	\$0.000242	\$0.000055	\$0.000008	\$0.000305	\$ 0.000287
Usage - per MOU						
AHD	Pg. 7	\$0.003374	\$0.000768	\$0.000116	\$0.004258	\$ 0.004003

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs
End Office
Urban

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Line Ports - per Line						
Analog	Pg. 10	\$ 0.94	\$ 0.21	\$ 0.03	\$ 1.18	\$ 1.11
Digital	Pg. 11	\$ 0.84	\$ 0.19	\$ 0.03	\$ 1.07	\$ 1.00
ISDN - BRI	Pg. 12	\$ 10.47	\$ 2.38	\$ 0.36	\$ 13.21	\$ 12.42
Trunk Ports - per Trunk						
Digital	Pg. 13	\$ 1.75	\$ 0.40	\$ 0.06	\$ 2.20	\$ 2.07
ISDN - PRI	Pg. 14	\$ 141.19	\$ 32.13	\$ 4.87	\$ 178.20	\$ 167.51
Trunk Ports - per MOU						
AHD	Pg. 15	\$0.000228	\$0.000052	\$0.000008	\$0.000288	\$ 0.000271
Usage - per MOU						
AHD	Pg. 16	\$0.002366	\$0.000539	\$0.000082	\$0.002987	\$ 0.002807

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs**End Office****Suburban**

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Line Ports - per Line						
Analog	Pg. 19	\$ 0.86	\$ 0.20	\$ 0.03	\$ 1.08	\$ 1.02
Digital	Pg. 20	\$ 0.89	\$ 0.20	\$ 0.03	\$ 1.13	\$ 1.06
ISDN - BRI	Pg. 21	\$ 10.59	\$ 2.41	\$ 0.37	\$ 13.37	\$ 12.57
Trunk Ports - per Trunk						
Digital	Pg. 22	\$ 1.85	\$ 0.42	\$ 0.06	\$ 2.33	\$ 2.19
ISDN - PRI	Pg. 23	\$ 145.58	\$ 33.13	\$ 5.02	\$ 183.74	\$ 172.71
Trunk Ports - per MOU						
AHD	Pg. 24	\$0.000251	\$0.000057	\$0.000009	\$0.000317	\$ 0.000298
Usage - per MOU						
AHD	Pg. 25	\$0.003777	\$0.000860	\$0.000130	\$0.004767	\$ 0.004481

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs
End Office
Rural

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Line Ports - per Line						
Analog	Pg. 28	\$ 0.84	\$ 0.19	\$ 0.03	\$ 1.07	\$ 1.00
Digital	Pg. 29	\$ 0.84	\$ 0.19	\$ 0.03	\$ 1.06	\$ 1.00
ISDN - BRI	Pg. 30	\$ 10.59	\$ 2.41	\$ 0.37	\$ 13.37	\$ 12.57
Trunk Ports - per Trunk						
Digital	Pg. 31	\$ 1.84	\$ 0.42	\$ 0.06	\$ 2.32	\$ 2.18
ISDN - PRI	Pg. 32	\$ 145.58	\$ 33.13	\$ 5.02	\$ 183.74	\$ 172.71
Trunk Ports - per MOU						
AHD	Pg. 33	\$0.000250	\$0.000057	\$0.000009	\$0.000315	\$ 0.000296
Usage - per MOU						
AHD	Pg. 34	\$0.004452	\$0.001013	\$0.000154	\$0.005619	\$ 0.005282

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs
End Office
Statewide

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Port Additives - per Port						
Centrex Service	Pg. 37	\$ 0.7633	\$ 0.1737	\$ 0.0263	\$ 0.9634	\$ 0.9056
Ringmate	Pg. 38	\$ 0.9107	\$ 0.2073	\$ 0.0314	\$ 1.1494	\$ 1.0804
Three-Way Calling	Pg. 39	\$ 0.0527	\$ 0.0120	\$ 0.0018	\$ 0.0665	\$ 0.0625
Speed Calling	Pg. 40	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Waiting	Pg. 41	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - D/A	Pg. 42	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Busy	Pg. 43	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Var.	Pg. 44	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -

NOTE: The Source references are all contained in WORKPAPER, PART B.

**Local Switching Costs
End Office
Urban**

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Port Additives - per Port						
Centrex Service	Pg. 45	\$ 0.7633	\$ 0.1737	\$ 0.0263	\$ 0.9634	\$ 0.9056
Ringmate	Pg. 46	\$ 0.9107	\$ 0.2073	\$ 0.0314	\$ 1.1494	\$ 1.0804
Three-Way Calling	Pg. 47	\$ 0.0549	\$ 0.0125	\$ 0.0019	\$ 0.0693	\$ 0.0652
Speed Calling	Pg. 48	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Waiting	Pg. 49	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - D/A	Pg. 50	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Busy	Pg. 51	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Var.	Pg. 52	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -

NOTE: The Source references are all contained in WORKPAPER, PART B.

**Local Switching Costs
End Office
Suburban**

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Port Additives - per Port						
Centrex Service	Pg. 53	\$ 0.7633	\$ 0.1737	\$ 0.0263	\$ 0.9634	\$ 0.9056
Ringmate	Pg. 54	\$ 0.9107	\$ 0.2073	\$ 0.0314	\$ 1.1494	\$ 1.0804
Three-Way Calling	Pg. 55	\$ 0.0513	\$ 0.0117	\$ 0.0018	\$ 0.0647	\$ 0.0608
Speed Calling	Pg. 56	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Waiting	Pg. 57	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - D/A	Pg. 58	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Bu	Pg. 59	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Va	Pg. 60	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs
End Office
Rural

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Port Additives - per Port						
Centrex Service	Pg. 61	\$ 0.7633	\$ 0.1737	\$ 0.0263	\$ 0.9634	\$ 0.9056
Ringmate	Pg. 62	\$ 0.9107	\$ 0.2073	\$ 0.0314	\$ 1.1494	\$ 1.0804
Three-Way Calling	Pg. 63	\$ 0.0508	\$ 0.0116	\$ 0.0018	\$ 0.0641	\$ 0.0602
Speed Calling	Pg. 64	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Waiting	Pg. 65	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - D/A	Pg. 66	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Busy	Pg. 67	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -
Call Forwarding - Var.	Pg. 68	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$ -

NOTE: The Source references are all contained in WORKPAPER, PART B.

Local Switching Costs
End Office
Tandem

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E	6% Reduction per PSB Order F * .94 G
Trunk Ports-per Trunk						
Digital	Pg. 69	\$ 1.82	\$ 0.41	\$ 0.06	\$ 2.30	\$ 2.16
Trunk Ports - per MOU						
AHD	Pg. 70	\$0.000248	\$0.000056	\$0.000009	\$0.000313	\$ 0.000294
Usage - per MOU						
AHD	Pg. 71	\$0.000776	\$0.000177	\$0.000027	\$0.000980	\$ 0.000921

NOTE: The Source references are all contained in WORKPAPER, PART B.

Analog Port - Statewide TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.98
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Installed Switch Investment	L1 * L2	\$ 41.61
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Installed Power Investment	L3 * L4	\$ 4.55
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total Installed Switching Investment	L3 + L5 + L6	\$ 50.01
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 9.05
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.28
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.39
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.87
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.20

**Digital Port - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.93
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Installed Switch Investment	L1 * L2	\$ 41.54
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Installed Power Investment	L3 * L4	\$ 4.54
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total Installed Switching Investment	L3 + L5 + L6	\$ 49.93
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 9.04
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.27
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.38
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.87
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.20

**ISDN BRI Port - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 207.15
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 319.52
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 34.90
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 250.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 604.42
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 109.40
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 75.91
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 16.75
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 10.51
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.36
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 2.39

**Dedicated Trunk - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 59.66
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 92.02
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 10.05
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ -
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 102.07
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 18.47
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 12.82
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 2.83
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 1.78
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.06
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 0.40

**ISDN PRI Port - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment (23B + D)	WP - Part B, Pg. 85	\$ 3,015.57
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 4,651.24
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 508.06
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ 3,000.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 8,159.31
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 1,476.83
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 1,024.81
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 226.07
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 141.91
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 4.90
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 32.30

**Common Trunk - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 59.66
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	\$ 35.00
3	Material Investment per BH MOU	L1 / L2	\$ 1.70
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 2.63
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.29
8	Per MOU Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total In Place Switching Investment per BH MOU	L5 + L7 + L8	\$ 2.92
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost per BH MOU	L9 * L10	\$ 0.53
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment per BH MOU	L9 * L12	\$ 0.37
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost per BH MOU	L13 * L14	\$ 0.08
16	Annual TELRIC Cost per BH MOU	L11 + L15	\$ 0.61
17	Common Factor	EXH - Part E	0.0064
18	Annual Common Cost per BH MOU	(L9 + L13) * L17	\$ 0.02
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Annual Directly Attributable Joint Cost per BH MOU	(L9+L13) * L19	\$ 0.14
21	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
22	Fixed TELRIC Cost per MOU (AHD)	L16 / L21	\$ 0.000242
23	Fixed Common Cost per MOU (AHD)	L18 / L21	\$ 0.000008
24	Fixed Directly Attributable Joint Cost per MOU (AHD)	L20 / L21	\$ 0.000055

**Total Local Switch Usage - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Variable TELRIC Cost per MOU (AHD)	WP - Part B, Pg. 9	\$ 0.001596
2	Fixed TELRIC Cost per MOU	WP - Part B, Pg. 8	\$ 0.001778
3	Total TELRIC Cost per MOU (AHD)	L1 + L2	\$ 0.003374
4	Variable Common Cost per MOU (AHD)	WP - Part B, Pg. 9	\$ 0.000055
5	Fixed Common Cost per MOU	WP - Part B, Pg. 8	\$ 0.000061
6	Total Common Cost per MOU (AHD)	L4 + L5	\$ 0.000116
7	Variable Directly Attributable Joint Cost per MOU (AHD)	WP - Part B, Pg. 9	\$ 0.000363
8	Fixed Directly Attributable Joint Cost per MOU	WP - Part B, Pg. 8	\$ 0.000405
9	Total Directly Attributable Joint Cost per MOU (AHD)	L7 + L8	\$ 0.000768

**Fixed Local Switch Usage - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 18,197,868
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	2,518,111
3	Material Investment per BH MOU	L1/ L2	\$ 7.23
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment per BH MOU	L3 * L4	\$ 11.15
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment per BH MOU	L5 * L6	\$ 1.22
8	Right to Use Fees	WP - Part B, Pg. 83	\$ 22,924,330
9	Per MOU Right to Use Fees	L8 / L2	9.10
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 21.47
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 3.89
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 2.70
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.59
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 4.48
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.15
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 +L14)* L 20	\$ 1.02
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Fixed TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.001778
24	Fixed Common Cost per MOU (AHD)	L19 / L22	\$ 0.000061
25	Fixed Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000405

**Variable Local Switch Usage - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 28,361,754
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	2,518,111
3	Material Investment per BH MOU	L1/ L2	\$ 11.26
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 17.37
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 1.90
8	Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Per MOU Right to Use Fees	L8 / L2	0.00
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 19.27
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 3.49
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 2.42
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.53
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 4.02
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.14
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 0.92
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Variable TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.001596
24	Variable Common Cost per MOU (AHD)	L19 / L22	\$ 0.000055
25	Variable Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000363

Analog Port - Urban TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 29.23
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Installed Switch Investment	L1 * L2	\$ 45.08
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Installed Power Investment	L3 * L4	\$ 4.92
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total Installed Switching Investment	L3 + L5 + L6	\$ 53.86
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 9.75
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.76
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.49
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.94
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.21

**Digital Port -Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.12
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 40.28
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 4.40
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total In Place Switching Investment	L5 + L7 + L8	\$ 48.53
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 8.78
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.10
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.34
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.84
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.19

**ISDN BRI Port - URBAN
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 205.62
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 317.15
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 34.64
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 250.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 601.80
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 108.93
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 75.59
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 16.67
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 10.47
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.36
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 2.38

**Dedicated Trunk - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 56.41
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 87.01
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 9.50
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 100.36
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 18.17
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 12.61
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 2.78
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 1.75
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.06
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 0.40

**ISDN PRI Port - Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment (23B + D)	WP - Part B, Pg. 85	\$ 2,991.51
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 4,614.13
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 504.01
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ 3,000.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 8,118.14
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 1,469.38
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 1,019.64
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 224.93
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 141.19
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 4.87
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 32.13

**Common Trunk - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 56.41
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	35.00
3	Material Investment per BH MOU	L1 / L2	\$ 1.61
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 2.49
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.2715
8	Per MOU Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total In Place Switching Investment per BH MOU	L5 + L7 + L8	\$ 2.76
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost per BH MOU	L9 * L10	\$ 0.499
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment per BH MOU	L9 * L12	\$ 0.35
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost per BH MOU	L13 * L14	\$ 0.0764
16	Annual TELRIC Cost per BH MOU	L11 + L15	\$ 0.5755
17	Common Factor	EXH - Part E	0.0064
18	Annual Common Cost per BH MOU	(L9 + L13) * L17	\$ 0.0199
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Annual Directly Attributable Joint Cost per BH MOU	(L9+L13) * L19	\$ 0.1310
21	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
22	Fixed TELRIC Cost per MOU (AHD)	L16 / L21	\$ 0.000228
23	Fixed Common Cost per MOU (AHD)	L18 / L21	\$ 0.000008
24	Fixed Directly Attributable Joint Cost per MOU (AHD)	L20 / L21	\$ 0.000052

**Total Local Switch Usage - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Variable TELRIC Cost per MOU (AHD)	WP - Part B, Pg. 18	\$ 0.001496
2	Fixed TELRIC Cost per MOU	WP - Part B, Pg. 17	\$ 0.000870
3	Total TELRIC Cost per MOU	L1 + L2	\$ 0.002366
4	Variable Common Cost per MOU (AHD)	WP - Part B, Pg. 18	\$ 0.000052
5	Fixed Common Cost per MOU	WP - Part B, Pg. 17	\$ 0.000030
6	Total Common Cost per MOU (AHD)	L4 + L5	\$ 0.000082
7	Variable Directly Attributable Joint Cost per MOU (AHD)	WP - Part B, Pg. 18	\$ 0.000341
8	Fixed Directly Attributable Joint Cost per MOU	WP - Part B, Pg. 17	\$ 0.000198
9	Total Directly Attributable Joint Cost per MOU (AHD)	L7 + L8	\$ 0.000539

**Fixed Local Switch Usage - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 3,274,652
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	905,109
3	Material Investment per BH MOU	L1/ L2	\$ 3.62
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment per BH MOU	L3 * L4	\$ 5.58
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment per BH MOU	L5 * L6	\$ 0.61
8	Right to Use Fees	WP - Part B, Pg. 83	\$ 3,904,766
9	Per MOU Right to Use Fees	L8 / L2	4.31
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 10.50
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 1.90
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 1.32
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.29
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 2.19
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.08
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 0.50
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Fixed TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.000870
24	Fixed Common Cost per MOU (AHD)	L19 / L22	\$ 0.000030
25	Fixed Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000198

Variable Local Switch Usage - Urban TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 9,500,890
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	905,109
3	Material Investment per BH MOU	L1/ L2	\$ 10.50
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 16.19
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	1.77
8	Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Per MOU Right to Use Fees	L8 / L2	0.1092
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 18.07
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 3.27
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 2.27
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.50
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 3.77
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.13
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 0.86
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Variable TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.001496
24	Variable Common Cost per MOU (AHD)	L19 / L22	\$ 0.000052
25	Variable Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000341

Analog Port - Suburban TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.62
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Installed Switch Investment	L1 * L2	\$ 41.05
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Installed Power Investment	L3 * L4	\$ 4.4842
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total Installed Switching Investment	L3 + L5 + L6	\$ 49.39
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 8.94
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.20
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.37
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.86
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.20

TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 27.77
2	Installation Factor	WP - Part B, Pg. 74	1.542
3	In Place Switch Investment	L1 * L2	\$ 42.84
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 4.6790
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 51.36
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 9.30
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.45
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.42
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.89
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.20

**ISDN BRI Port - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 209.93
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 323.79
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 35.3682
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 250.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 609.16
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 110.26
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 76.51
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 16.88
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 10.59
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.37
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 2.41

**Dedicated Trunk - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 62.04
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 95.68
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 10.4517
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ -
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 106.14
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 19.21
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 13.33
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 2.94
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 1.85
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.06
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 0.42

**ISDN PRI Port - Suburban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment (23B + D)	WP - Part B, Pg. 85	\$ 3,138.87
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 4,841.43
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 528.8388
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ 3,000.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 8,370.27
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 1,515.02
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 1,051.31
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 231.92
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 145.58
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 5.02
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 33.13

**Common Trunk - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 62.04
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	35.00
3	Material Investment per BH MOU	L1 / L2	\$ 1.77
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 2.73
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.2986
8	Per MOU Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total In Place Switching Investment per BH MOU	L5 + L7 + L8	\$ 3.03
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost per BH MOU	L9 * L10	\$ 0.55
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment per BH MOU	L9 * L12	\$ 0.38
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost per BH MOU	L13 * L14	\$ 0.08
16	Annual TELRIC Cost per BH MOU	L11 + L15	\$ 0.63
17	Common Factor	EXH - Part E	0.0064
18	Annual Common Cost per BH MOU	(L9 + L13) * L17	\$ 0.02
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Annual Directly Attributable Joint Cost per BH MOU	(L9+L13) * L19	\$ 0.14
21	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
22	Fixed TELRIC Cost per MOU (AHD)	L16 / L21	\$ 0.000251
23	Fixed Common Cost per MOU (AHD)	L18 / L21	\$ 0.000009
24	Fixed Directly Attributable Joint Cost per MOU (AHD)	L20 / L21	\$ 0.000057

**Total Local Switch Usage - Suburban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Variable TELRIC Cost per MOU (AHD)	WP - Part B, Pg. 27	\$ 0.001651
2	Fixed TELRIC Cost per MOU	WP - Part B, Pg. 26	\$ 0.002126
3	Total TELRIC Cost per MOU (AHD)	L1 + L2	\$ 0.003777
4	Variable Common Cost per MOU (AHD)	WP - Part B, Pg. 27	\$ 0.000057
5	Fixed Common Cost per MOU	WP - Part B, Pg. 26	\$ 0.000073
6	Total Common Cost per MOU (AHD)	L4 + L5	\$ 0.000130
7	Variable Directly Attributable Joint Cost per MOU (AHD)	WP - Part B, Pg. 27	\$ 0.000376
8	Fixed Directly Attributable Joint Cost per MOU	WP - Part B, Pg. 26	\$ 0.000484
9	Total Directly Attributable Joint Cost per MOU (AHD)	L7 + L8	\$ 0.000860

**Fixed Local Switch Usage - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 10,231,331
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	1,213,104
3	Material Investment per BH MOU	L1/ L2	\$ 8.43
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment per BH MOU	L3 * L4	\$ 13.01
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment per BH MOU	L5 * L6	\$ 1.4210
8	Right to Use Fees	WP - Part B, Pg. 83	\$ 13,640,315
9	Per MOU Right to Use Fees	L8 / L2	11.24
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 25.67
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 4.65
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 3.22
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.71
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 5.36
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.18
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 1.22
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Fixed TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.002126
24	Fixed Common Cost per MOU (AHD)	L19 / L22	\$ 0.000073
25	Fixed Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000484

Variable Local Switch Usage - Suburban
 TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 14,132,537
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	1,213,104
3	Material Investment per BH MOU	L1 / L2	\$ 11.65
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 17.97
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 1.9628
8	Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Per MOU Right to Use Fees	L8 / L2	0.00
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 19.93
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 3.61
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 2.50
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.55
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 4.16
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.14
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L20	\$ 0.95
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Variable TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.001651
24	Variable Common Cost per MOU (AHD)	L19 / L22	\$ 0.000057
25	Variable Directly Attributable Joint Cost per MOU (AHD)	L21 / L22	\$ 0.000376

Analog Port - Rural TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.14
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 40.31
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 4.4036
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 48.57
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 8.79
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.10
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.35
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.84
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.19

**Digital Port - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 25.97
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 40.05
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 4.3747
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 48.27
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 8.74
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.06
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.34
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.84
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.19

**ISDN BRI Port - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 209.93
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 323.79
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 35.37
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 250.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 609.16
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 110.26
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 76.51
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 16.88
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 10.59
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.37
17	Directly Atributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Atributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 2.41

**Dedicated Trunk - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 61.69
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 95.16
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 10.39
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ -
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 105.55
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 19.10
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 13.26
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 2.92
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 1.84
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.06
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 0.42

**ISDN PRI Port - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment (23B + D)	WP - Part B, Pg. 85	\$ 3,138.87
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 4,841.43
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 528.84
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ 3,000.00
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 8,370.27
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 1,515.02
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 1,051.31
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 231.92
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 145.58
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 5.02
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 33.13

**Common Trunk - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 61.69
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	35.00
3	Material Investment per BH MOU	L1 / L2	\$ 1.76
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 2.72
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.30
8	Per MOU Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total In Place Switching Investment per BH MOU	L5 + L7 + L8	\$ 3.02
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost per BH MOU	L9 * L10	\$ 0.55
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment per BH MOU	L9 * L12	\$ 0.38
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost per BH MOU	L13 * L14	\$ 0.0836
16	Annual TELRIC Cost per BH MOU	L11 + L15	\$ 0.63
17	Common Factor	EXH - Part E	0.0064
18	Annual Common Cost per BH MOU	(L9 + L13) * L17	\$ 0.0217
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Annual Directly Attributable Joint Cost per BH MOU	(L9+L13) * L19	\$ 0.1433
21	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
22	Fixed TELRIC Cost per MOU (AHD)	L16 / L21	\$ 0.000250
23	Fixed Common Cost per MOU (AHD)	L18 / L21	\$ 0.000009
24	Fixed Directly Attributable Joint Cost per MOU (AHD)	L20 / L21	\$ 0.000057

**Total Local Switch Usage - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Variable TELRIC Cost per MOU (AHD)	WP - Part B, Pg. 36	\$ 0.001675
2	Fixed TELRIC Cost per MOU	WP - Part B, Pg. 35	\$ 0.002777
3	Total TELRIC Cost per MOU (AHD)	L1 + L2	\$ 0.004452
4	Variable Common Cost per MOU (AHD)	WP - Part B, Pg. 36	\$ 0.000058
5	Fixed Common Cost per MOU	WP - Part B, Pg. 35	\$ 0.000096
6	Total Common Cost per MOU (AHD)	L4 + L5	\$ 0.000154
7	Variable Directly Attributable Joint Cost per MOU (AHD)	WP - Part B, Pg. 36	\$ 0.000381
8	Fixed Directly Attributable Joint Cost per MOU	WP - Part B, Pg. 35	\$ 0.000632
9	Total Directly Attributable Joint Cost per MOU (AHD)	L7 + L8	\$ 0.001013

Fixed Local Switch Usage - Rural TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 4,691,885
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	399,898
3	Material Investment per BH MOU	L1/ L2	\$ 11.73
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment per BH MOU	L3 * L4	\$ 18.10
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment per BH MOU	L5 * L6	\$ 1.98
8	Right to Use Fees	WP - Part B, Pg. 83	\$ 5,379,249
9	Per MOU Right to Use Fees	L8 / L2	13.45
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 33.52
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 6.07
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 4.21
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.93
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 7.00
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.24
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 1.59
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Fixed TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.002777
24	Fixed Common Cost per MOU (AHD)	L19 / L22	\$ 0.000096
25	Fixed Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000632

Variable Local Switch Usage - Rural TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 84	\$ 4,728,322
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	399,898
3	Material Investment per BH MOU	L1/ L2	\$ 11.82
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 18.24
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 1.99
8	Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Per MOU Right to Use Fees	L8 / L2	0.00
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 20.23
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 3.66
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 2.54
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.56
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 4.22
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.15
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 0.96
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Variable TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.001675
24	Variable Common Cost per MOU (AHD)	L19 / L22	\$ 0.000058
25	Variable Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000381

**CENTREX PORT ADDITIVE - STATEWIDE
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3*L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 43.89
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 43.89
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 7.94
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 5.51
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.22
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.7633
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0263
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.1737

**Ringmate Port Additive - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 52.36
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 52.36
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 9.48
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 6.58
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.45
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.9107
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0314
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.2073

**Three-Way Calling Port Additive - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ 1.59
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ 1.77
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ 2.73
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ 0.30
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 3.03
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 0.55
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 0.38
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 0.08
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.0527
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0018
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.0120

**Speed Calling Port Additive - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Waiting Port Additive - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9+ L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 +L13)* L19] / 12	\$ -

**Call Forwarding - D/A Port Additive - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7+ L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 +L13)* L19] / 12	\$ -

**Call Forwarding - Busy Port Additive - Statewide
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5* L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9* L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13)* L19] / 12	\$ -

**Call Forwarding - Var. Port Additive - Statewide
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3*L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17 / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint	[(L9 + L13) * L19] / 12	\$ -

**CENTREX PORT ADDITIVE - URBAN
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 43.89
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 43.89
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 7.94
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 5.51
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.22
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.7633
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0263
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.1737

**Ringmate Port Additive - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 52.36
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 52.36
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 9.48
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 6.58
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.45
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.9107
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0314
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.2073

**Three-Way Calling Port Additive - Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ 1.66
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ 1.85
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ 2.85
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ 0.31
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 3.16
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 0.57
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 0.40
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 0.0875
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.0549
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0019
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.0125

**Speed Calling Port Additive - Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Waiting Port Additive - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9+ L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 +L13)* L19] / 12	\$ -

**Call Forwarding - D/A Port Additive - Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7+ L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - Busy Port Additive - Urban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5* L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - Var. Port Additive - Urban
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17 / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint	[(L9 + L13) * L19] / 12	\$ -

**Centrex Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.90000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 43.89
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 43.89
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 7.94
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 5.51
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.22
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.7633
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0263
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.1737

**Ringmate Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 52.36
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 52.36
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 9.48
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 6.58
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.45
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.9107
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0314
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.2073

**Three-Way Calling Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	C	VALUE
1	Switch Material Investment	WP - Part B, Pg. 89	\$	1.55
2	Utilization Adjustment Factor	Engineering		0.9000
3	Adjusted Switch Material Investment	L1/L2	\$	1.72
4	Installation Factor	WP - Part B, Pg. 74		1.5424
5	Installed Switch Investment	L3 * L4	\$	2.66
6	Power Factor	WP - Part B, Pg. 74		0.1092
7	Installed Power Investment	L5 * L6	\$	0.29
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$	-
9	Total Installed Switching Investment	L5 + L7 + L8	\$	2.95
10	Annual Switch Carrying Charge Factor	EXH - Part E		0.1810
11	Annual Switch Cost	L9 * L10	\$	0.53
12	Buildings Factor	EXH - Part E		0.1256
13	Buildings Investment	L9 * L12	\$	0.37
14	Annual Buildings Carrying Charge Factor	EXH - Part E		0.2206
15	Annual Buildings Cost	L13 * L14	\$	0.0817
16	Monthly TELRIC Cost	(L11 + L15)/12	\$	0.0513
17	Common Factor	EXH - Part E		0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$	0.0018
19	Directly Attributable Joint Factor	EXH - Part E		0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$	0.0117

**Speed Calling Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Waiting Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L7	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - D/A Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L11 * L14	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L15 * L16	\$ -
16	Monthly TELRIC Cost	(L13 + L17)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L11 + L15) * L19] / 1	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - Busy Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L1 * L2	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L3 * L4	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9+ L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 +L13)* L19] / 12	\$ -

**Call Forwarding - Var. Port Additive - Suburban
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L7	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint	[(L9 + L13) * L19] / 12	\$ -

**Centrex Port Additive - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 43.89
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 43.89
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 7.94
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 5.51
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.22
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.7633
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0263
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.1737

**Ringmate Port Additive - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 52.36
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 52.36
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 9.48
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 6.58
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 1.45
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.9107
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0314
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.2073

**Three-Way Calling Port Additive - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ 1.54
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ 1.71
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ 2.63
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L7	\$ 0.29
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ 2.92
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ 0.53
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ 0.37
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ 0.0809
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ 0.0508
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ 0.0018
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ 0.0116

**Speed Calling Port Additive - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Waiting Port Additive - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - D/A Port Additive - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 + L13) * L19] / 12	\$ -

**Call Forwarding - Busy Port Additive - Rural
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L6	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9+ L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	[(L9 +L13)* L19] / 12	\$ -

**Call Forwarding - Var. Port Additive - Rural
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 89	\$ -
2	Utilization Adjustment Factor	Engineering	0.9000
3	Adjusted Switch Material Investment	L1/L2	\$ -
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	Installed Switch Investment	L3 * L4	\$ -
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	Installed Power Investment	L5 * L7	\$ -
8	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total Installed Switching Investment	L5 + L7 + L8	\$ -
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost	L9 * L10	\$ -
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment	L9 * L12	\$ -
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost	L13 * L14	\$ -
16	Monthly TELRIC Cost	(L11 + L15)/12	\$ -
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L9 + L13) * L17] / 12	\$ -
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint	[(L9 + L13) * L19] / 12	\$ -

**Dedicated Tandem Trunk
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 61.19
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	In Place Switch Investment	L1 * L2	\$ 94.37
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	In Place Power Investment	L3 * L4	\$ 10.31
6	Per Trunk Right to Use Fees	WP - Part B, Pg. 83	\$ -
7	Total In Place Switching Investment	L3 + L5 + L6	\$ 104.68
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 18.95
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 13.15
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 2.90
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 1.82
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.06
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 0.41

**Common Trunk - Tandem
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 61.19
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	35.00
3	Material Investment per BH MOU	L1 / L2	\$ 1.75
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 2.70
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.29
8	Per MOU Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Total In Place Switching Investment per BH MOU	L5 + L7 + L8	\$ 2.99
10	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
11	Annual Switch Cost per BH MOU	L9 * L10	\$ 0.54
12	Buildings Factor	EXH - Part E	0.1256
13	Buildings Investment per BH MOU	L9 * L12	\$ 0.38
14	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
15	Annual Buildings Cost per BH MOU	L13 * L14	\$ 0.0829
16	Annual TELRIC Cost per BH MOU	L11 + L15	\$ 0.62
17	Common Factor	EXH - Part E	0.0064
18	Annual Common Cost per BH MOU	(L9 + L13) * L17	\$ 0.0215
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Annual Directly Attributable Joint Cost per BH MOU	(L9+L13) * L19	\$ 0.14
21	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 76	2,520.00
22	Fixed TELRIC Cost per MOU (AHD)	L16 / L21	\$ 0.000248
23	Fixed Common Cost per MOU (AHD)	L18 / L21	\$ 0.000009
24	Fixed Directly Attributable Joint Cost per MOU (AHD)	L20 / L21	\$ 0.000056

**Total Local Switch Usage - Tandem
 TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	Variable TELRIC Cost per MOU (AHD)	WP - Part B, Pg. 73	\$ 0.000125
2	Fixed TELRIC Cost per MOU	WP - Part B, Pg. 72	\$ 0.000651
3	Total TELRIC Cost per MOU (AHD)	L1 + L2	\$ 0.000776
4	Variable Common Cost per MOU (AHD)	WP - Part B, Pg. 73	\$ 0.000004
5	Fixed Common Cost per MOU	WP - Part B, Pg. 72	\$ 0.000022
6	Total Common Cost per MOU (AHD)	L4 + L5	\$ 0.000027
7	Variable Directly Attributable Joint Cost per MOU (AHD)	WP - Part B, Pg. 73	\$ 0.000028
8	Fixed Directly Attributable Joint Cost per MOU	WP - Part B, Pg. 72	\$ 0.000148
9	Total Directly Attributable Joint Cost per MOU (AHD)	L7 + L8	\$ 0.000177

Fixed Tandem Switch Usage TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 86	\$ 703,892
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	741,225
3	Material Investment per BH MOU	L1/ L2	\$ 0.95
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 1.46
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.16
8	Right to Use Fees	WP - Part B, Pg. 83	\$ 4,624,703
9	Per MOU Right to Use Fees	L8 / L2	6.24
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 7.86
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 1.42
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 0.99
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.22
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 1.64
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.06
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14)* L 20	\$ 0.37
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Fixed TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.000651
24	Fixed Common Cost per MOU (AHD)	L19 / L22	\$ 0.000022
25	Fixed Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000148

Variable Tandem Switch Usage TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	Traffic Sensitive Switch Material Investment	WP - Part B, Pg. 86	\$ 654,663
2	Busy Hour (BH) Traffic in Minutes of Use (MOU)	WP - Part B, Pg. 87	741,225
3	Material Investment per BH MOU	L1/ L2	\$ 0.88
4	Installation Factor	WP - Part B, Pg. 74	1.5424
5	In Place Switch Investment	L3 * L4	\$ 1.36
6	Power Factor	WP - Part B, Pg. 74	0.1092
7	In Place Power Investment	L5 * L6	\$ 0.15
8	Right to Use Fees	WP - Part B, Pg. 83	\$ -
9	Per MOU Right to Use Fees	L8 / L2	0.00
10	Total In Place Switching Investment per BH MOU	L5 + L7 + L9	\$ 1.51
11	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
12	Annual Switch Cost per BH MOU	L10 * L11	\$ 0.27
13	Buildings Factor	EXH - Part E	0.1256
14	Buildings Investment per BH MOU	L10 * L13	\$ 0.19
15	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
16	Annual Buildings Cost per BH MOU	L14 * L15	\$ 0.04
17	Annual TELRIC Cost per BH MOU	L12 + L16	\$ 0.32
18	Common Factor	EXH - Part E	0.0064
19	Annual Common Cost per BH MOU	(L10 + L14) * L18	\$ 0.01
20	Directly Attributable Joint Factor	EXH - Part E	0.0422
21	Annual Directly Attributable Joint Cost per BH MOU	(L10 + L14) * L 20	\$ 0.07
22	BH to All Hours of the Day (AHD) Conversion Factor	WP - Part B, Pg. 75	2,520.00
23	Variable TELRIC Cost per MOU (AHD)	L17 / L22	\$ 0.000125
24	Variable Common Cost per MOU (AHD)	L19 / L22	\$ 0.000004
25	Variable Directly Attributable Joint Cost per MOU (AHD)	L 21 / L22	\$ 0.000028

Derivation of Factors

LINE #	ITEM A	SOURCE B	VALUE C
1	Hardwire Equipment Installed Investment - Digital Switch	1995 DCPR Data	\$ 89,756,395.65
2	Plug-in Unit Installed Investment - Digital Switch	1995 DCPR Data	\$ 44,229,746.68
3	Total Installed Investment - Digital Switch	L1 + L2	\$ 133,986,142.33
4	Hardwire Equipment Material Investment - Digital Switch	1995 DCPR Data	\$ 44,862,836.39
5	Plug-in Unit Material Investment - Digital Switch	1995 DCPR Data	\$ 42,005,264.77
6	Total Installed Investment - Digital Switch	L4 + L5	\$ 86,868,101.16
7	Power Equipment Installed Investment - Digital Switch	1995 DCPR Data	\$ 14,635,569.11
8	Installation Factor - Digital Switch	L3 / L6	1.5424
9	Power Factor - Digital Switch	L7 / L3	0.1092

**End Office Busy Hour Annualization Factor Development
TELRIC**

Line	Item A	Source B	Value C
1	% of BHMINS to AHD MINS, End Office	Traffic Sample	0.10
2	# of ABD-AHD MINS per BHMIN	1/L1	10.00
3	# ABDs in sampled month, March '96	Calendar	21
4	March '96 Traffic to Annual Traffic, Statewide	Traffic Study	12.0
5	BHMIN to Annual Minutes Factor, End Office	L2*L3*L4	2520.00

**Tandem Busy Hour Annualization Factor Development
TELRIC**

Line	Item	Source	Value
1	% of BHMINS to AHD MINS, Tandem	Traffic Sample	0.10
2	# of ABD-AHD MINS per BHMIN	1/L1	10.00
3	# ABDs in sampled month, March '96	Calendar	21
4	March '96 Traffic to Annual Traffic, Statewide	Traffic Study	12.0
5	BHMIN to Annual Minutes Factor, Tandem	L2*L3*L4	2520.00

SCIS INPUTS - VERMONT 5ESS SWITCHES URBAN

INPUT DESCRIPTION	HOST BURLINGTON	REMOTE BRANDON	REMOTE E.FAIRFIELD	REMOTE ENOSBRG FLS	REMOTE FAIRFAX	REMOTE GRAND ISLE
5E9.2 - STANDARD						
HOST GENERAL:						
HD/ABS CCS RATIO	1.3					
YEAR SWITCH CUTOVER	1986					
PEAK TO AVERAGE BH FACTOR	1.2					
# OF YEARS TO SWITCH REPLACEMENT	12					
# OF YEARS TO PROCESSOR EXHAUST	12					
REMOTE GENERAL:		RSM (2)	RSM (1)	MMRSM (2)	RSM (1)	RSM (2)
TYPE						
HD/ABS CCS RATIO		1.3	1.3	1.3	1.3	1.3
# OF UMBILICAL T1 LINKS		(U) 24	(U) 9	(U) 26	(U) 20	(U) 30
TOTAL UMBILICAL CCS		(U) 11848	(U) 4508	(U) 13272	(U) 12860	(U) 15268
TOTAL UMBILICAL CALLS		(U) 10793	(U) 2627	(U) 8698	(U) 7462	(U) 11498
NET % INTRA-REMOTE CCS		40	40	40	20	20
NET % INTRA-REMOTE CALLS		40	40	40	20	20
TOTAL INTRACLUSTER INTERMODULE CCS		4435		4435		1750
ANALOG LINES:						
NUMBER OF LINES	394	394	394	394	394	394
ADMINISTRATIVE FILL FACTOR	81	81	81	81	81	81
ABSBH O+T CCS PER LINE	6.08	4.73	6.4	5.25	6.65	54.88
ABSBH O+T CALLS PER LINE	5.15	2	3.73	3.63	3.82	3.45
CONCENTRATION RATIO	(U) 8:1	(U) 6:1	(U) 4:1	(U) 6:1	(U) 4:1	(U) 6:1
COEFFICIENT OF VARIATION	0.06	0.06	0.06	0.06	0.06	0.06
IDCU TR008 M1 LINES:						
NUMBER OF LINES	74415	3797	780	3600	2048	3772
ADMINISTRATIVE FILL FACTOR	72	72	72	72	72	72
ABSBH O+T CCS PER LINE	6.08	4.71	6.4	5.57	6.57	4.55
ABSBH O+T CALLS PER LINE	5.15	4.53	3.73	3.63	3.82	3.45
CONCENTRATION RATIO	(U) 7.5:1	(U) 6:1	(U) 4.8:1	(U) 6:1	(U) 4.8:1	(U) 6:1
ANALOG TRUNKS:	0					
NUMBER OF TRUNKS	0					
ADMINISTRATIVE FILL FACTOR	0					
ABSBH O+T CCS PER TRUNK	0					
ABSBH O+T CALLS PER TRUNK	0					
DIGITAL TRUNKS:						
NUMBER OF TRUNKS	23,523					
ADMINISTRATIVE FILL FACTOR	90					
ABSBH O+T CCS PER TRUNK	21					
ABSBH O+T CALLS PER TRUNK	18.15					
SS7:						
INITIAL YEAR SS7 INSTALLATION	1993					
ECONOMIC LIFE OF SS7 EQUIPMENT	15					
INITIAL YEAR LINK PAIR INSTALLATION	1993					
LINK PAIR PERCENT UTILIZATION - INITIAL	10					
- END	40					
ISDN:						
# OF ISDN SMs that do Not serve Remotes	T					
MIX BRI & PRI in the Same SM	NO					
Number of BRI Non-Integrated LINES - U Cards	3530					
BRI ADMINISTRATIVE FILL FACTOR	81					
ABSBH O+T CCS PER BRI LINE	18					
ABSBH O+T CALLS PER BRI LINE	5.15					
NUMBER OF PRI's	82					
NUMBER OF T-1's PER PRI D CHANNEL	1					
ABSBH CALLS PER PRI	230					
PERCENT of O+T PRI that are Originating	50					

VERMONT 5ESS SWITCHES - URBAN

WORKPAPER
PART _____ B _____
Page _78_ of _89_
Compliance Filing

REMOTE MIDDLEBRY	REMOTE MILTON	REMOTE RICHFORD	REMOTE SHELBURNE	REMOTE SALISBURY	REMOTE ST. ALBANS	REMOTE SWANTON	REMOTE UNDERHILL	REMOTE VERGENNES	REMOTE WINOOSKI
MMRSM-(3)	MMRSM-(3)	RSM (1)	MMRSM-(2)	RSM (1)	MMRSM-(4)	MMRSM-(2)	MMRSM-(2)	MMRSM (2)	MMRSM-(4)
1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2
(U) 60	(U) 54	(U) 11	(U) 40	(U) 7	(U) 68	(U) 40	(U) 36	(U) 24	(U) 64
(U) 31977	(U) 28474	(U) 5192	(U) 25075	(U) 3178	(U) 35691	(U) 25304	(U) 18826	(U) 11734	(U) 35244
(U) 12096	(U) 10751	(U) 5583	(U) 12358	(U) 2360	(U) 12609	(U) 9612	(U) 7478	(U) 4246	(U) 29700
40	40	45	36	30	55	25	10	40	40
40	40	45	36	30	55	25	10	40	40
5699	4322		1756		6835	1101	2659	4447	9384
394	394	394	394	394	394	394	394	394	394
81	81	81	81	81	81	81	81	81	81
5.81	6.21	5.17	6.08	4.65	5.24	5.34	7.12	4.56	5.34
2.78	2.78	5.56	2.79	3.52	1.92	2.13	2.33	1.89	4.5
(U) 6:1	(U) 4:1	(U) 6:1	(U) 4:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1
0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
8148	7190	1432	6050	564	14200	5731	5079	3351	10606
72	72	72	72	72	72	72	72	72	72
6.26	6.26	5.17	6.08	4.8	5.44	5.52	7.1	5.3	5.34
2.34	2.34	5.56	3.01	3.52	1.92	2.09	2.65	1.89	4.5
(U) 4.8:1	(U) 4.8:1	(U) 6:1	(U) 4.8:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1

SCIS INPUTS - VERMONT EXAMPLE 5ESS SWITCHES SUBURBAN

INPUT DESCRIPTION	HOST ESSEX JCT.
5E9.2 - STANDARD	
HOST GENERAL:	
HD/ABS CCS RATIO	1.18
YEAR SWITCH CUTOVER	1989
PEAK TO AVERAGE BH FACTOR	1.3
# OF YEARS TO SWITCH REPLACEMENT	15
# OF YEARS TO PROCESSOR EXHAUST	15
PROCESSOR UTILIZATION AT CUTOVER	4
PROCESSOR UTILIZATION AT FIFTH YEAR	7
PROCESSOR UTILIZ. AT SWITCH REPLACE.	10

REMOTE GENERAL:
 TYPE
 HD/ABS CCS RATIO
 # OF UMBILICAL T1 LINKS
 TOTAL UMBILICAL CCS
 TOTAL UMBILICAL CALLS
 NET % INTRA-REMOTE CCS
 NET % INTRA-REMOTE CALLS
 TOTAL INTRACLUSTER INTERMODULE CCS

ANALOG LINES:
 NUMBER OF LINES 394
 ADMINISTRATIVE FILL FACTOR 81
 ABSBH O+T CCS PER LINE 3.48
 ABSBH O+T CALLS PER LINE 1.92
 CONCENTRATION RATIO (U) 8:1
 COEFFICIENT OF VARIATION 0.05

IDCU TR008 M1 LINES:
 NUMBER OF LINES 27597
 ADMINISTRATIVE FILL FACTOR 72
 ABSBH O+T CCS PER LINE 3.32
 ABSBH O+T CALLS PER LINE 1.43
 CONCENTRATION RATIO (U) 8:1

ANALOG TRUNKS:
 NUMBER OF TRUNKS 0
 ADMINISTRATIVE FILL FACTOR 0
 ABSBH O+T CCS PER TRUNK 0
 ABSBH O+T CALLS PER TRUNK 0

DIGITAL TRUNKS:
 NUMBER OF TRUNKS 6,766
 ADMINISTRATIVE FILL FACTOR 90
 ABSBH O+T CCS PER TRUNK 21
 ABSBH O+T CALLS PER TRUNK 18.15

SS7:
 INITIAL YEAR SS7 INSTALLATION 1992
 ECONOMIC LIFE OF SS7 EQUIPMENT 15
 INITIAL YEAR LINK PAIR INSTALLATION 1992
 LINK PAIR PERCENT UTILIZATION - INITIAL 10
 - END 40

ISDN:
 # OF ISDN SMs that do Not serve Remotes N / A
 MIX BRI & PRI in the Same SM N / A
 Number of BRI Non-Integrated LINES - U Cards N / A
 BRI ADMINISTRATIVE FILL FACTOR N / A
 ABSBH O+T CCS PER BRI LINE N / A
 ABSBH O+T CALLS PER BRI LINE N / A
 NUMBER OF PRI's N / A
 NUMBER OF T-1's PER PRI D CHANNEL N / A
 ABSBH CALLS PER PRI N / A
 PERCENT of O+T PRI that are Originating N / A

SCIS INPUTS - VERMONT 5ESS SWITCHES RURAL

INPUT DESCRIPTION	HOST ST. JOHNSBY	REMOTE BARNET	REMOTE BARTON	REMOTE CONCORD	REMOTE DANVILLE
5E9.2 - STANDARD					
HOST GENERAL:					
HD/ABS CCS RATIO	1.3				
YEAR SWITCH CUTOVER	1985				
PEAK TO AVERAGE BH FACTOR	1.3				
# OF YEARS TO SWITCH REPLACEMENT	15				
# OF YEARS TO PROCESSOR EXHAUST	15				
PROCESSOR UTILIZATION AT CUTOVER	8				
PROCESSOR UTILIZATION AT FIFTH YEAR	10				
PROCESSOR UTILIZ. AT SWITCH REPLACE.	16				
REMOTE GENERAL:					
TYPE		RSM (1)	RSM (1)	RSM (1)	RSM (1)
HD/ABS CCS RATIO		1.3	1.3	1.3	1.3
# OF UMBILICAL T1 LINKS	(U) 9	(U) 7	(U) 10	(U) 4	
TOTAL UMBILICAL CCS	(U) 4050	(U) 2904	(U) 4752	(U) 1621	
TOTAL UMBILICAL CALLS	(U) 2900	(U) 1434	(U) 3584	(U) 1053	
NET % INTRA-REMOTE CCS		30	35	20	30
NET % INTRA-REMOTE CALLS		30	35	20	30
TOTAL INTRACLUSTR INTERMODULE CCS					
ANALOG LINES:					
NUMBER OF LINES	394	394	394	394	394
ADMINISTRATIVE FILL FACTOR	81	81	81	81	81
ABSBH O+T CCS PER LINE	4.84	5	4.58	5.47	4.71
ABSBH O+T CALLS PER LINE	4.04	3.72	1.86	4.24	2.7
CONCENTRATION RATIO	(U) 6:1	(U) 6:1	(U) 10:1	(U) 6:1	(U) 10:1
COEFFICIENT OF VARIATION	0.05	0.05	0.05	0.05	0.05
IDCU TR008 M1 LINES:					
NUMBER OF LINES	11,121	720	2,368	692	854
ADMINISTRATIVE FILL FACTOR	72	72	72	72	72
ABSBH O+T CCS PER LINE	4.84	5.3	4.24	5.47	5.02
ABSBH O+T CALLS PER LINE	4.04	3.72	1.77	4.06	2.7
CONCENTRATION RATIO	(U) 6:1	(U) 6:1	(U) 12:1	(U) 6:1	(U) 8:1
ANALOG TRUNKS:					
NUMBER OF TRUNKS	0				
ADMINISTRATIVE FILL FACTOR	0				
ABSBH O+T CCS PER TRUNK	0				
ABSBH O+T CALLS PER TRUNK	0				
DIGITAL TRUNKS:					
NUMBER OF TRUNKS	4,915				
ADMINISTRATIVE FILL FACTOR	90				
ABSBH O+T CCS PER TRUNK	21				
ABSBH O+T CALLS PER TRUNK	18.15				
SS7:					
INITIAL YEAR SS7 INSTALLATION	1992				
ECONOMIC LIFE OF SS7 EQUIPMENT	15				
INITIAL YEAR LINK PAIR INSTALLATION	1992				
LINK PAIR PERCENT UTILIZATION - INITIAL	10				
- END	40				
ISDN:					
# OF ISDN SMs that do Not serve Remotes	N / A				
MIX BRI & PRI in the Same SM	N / A				
Number of BRI Non-Integrated LINES - U Cards	N / A				
BRI ADMINISTRATIVE FILL FACTOR	N / A				
ABSBH O+T CCS PER BRI LINE	N / A				
ABSBH O+T CALLS PER BRI LINE	N / A				
NUMBER OF PRI's	N / A				
NUMBER OF T-1's PER PRI D CHANNEL	N / A				
ABSBH CALLS PER PRI	N / A				
PERCENT of O+T PRI that are Originating	N / A				

SCIS INPUTS - VERMONT 5ESS SWITCHES RURAL

REMOTE DERBY	REMOTE GRNSBRO	REMOTE HARDWICK	REMOTE ISLE. POND	REMOTE LUNENBRG	REMOTE LYDONVILLE	REMOTE MORGAN	REMOTE NEWPORT	REMOTE ORLNS-ALBN	REMOTE TROY	REMOTE W. BURKE
RSM (U)	RSM (U)	RSM (U)	RSM (U)	RSM (U)	MMRSM-(2)	RSM (1)	MMRSM-(2)	RSM (U)	RSM (U)	RSM (U)
1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
(U) 18	(U) 12	(U) 18	(U) 8	(U) 9	(U) 40	(U) 8	(U) 40	(U) 17	(U) 15	(U) 14
(U) 9401	(U) 6239	(U) 9405	(U) 3715	(U) 4056	(U) 26879	(U) 3859	(U) 23550	(U) 8741	7927	(U) 7289
(U) 3537	(U) 4630	(U) 5669	(U) 3395	(U) 4154	(U) 23156	(U) 1290	(U) 19909	(U) 5557	4551	(U) 5817
40	40	40	50	15	30	48	45	40	40	40
40	40	40	50	15	30	48	45	40	40	40
					4791		3538			
394	394	394	394	394	394	394	394	394	394	394
81	81	81	81	81	81	81	81	81	81	81
5.29	4.06	4.76	3.55	4.95	5.42	5.35	5.17	5.17	5.5	6.53
2.1	3.46	3.48	3.55	5.07	5.33	2.72	4.94	3.45	3.12	6.02
(U) 6:1	(U) 8:1	(U) 6:1	(U) 8:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 6:1	(U) 4:1
0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2497	1880	2404	1519	570	5935	993	7019	2291	2084	1462
72	72	72	72	72	72	72	72	72	72	72
5.44	4.68	5.74	3.97	4.95	6.11	5.35	5.81	5.47	5.3	6.55
2.03	3.38	3.36	3.55	5.07	5.22	1.42	4.88	3.45	3.05	5.01
(U) 6:1	(U) 6:1	(U) 4.8:1	(U) 8:1	(U) 6:1	(U) 4.8:1	(U) 6:1	(U) 4.8:1	(U) 6:1	(U) 6:1	(U) 4.8:1

SCIS INPUTS - VERMONT EXAMPLE "TANDEM" SWITCHES

INPUT DESCRIPTION	5 ESS W.RIVER JCT
HOST GENERAL:	
YEAR SWITCH CUTOVER	1993
PEAK TO AVERAGE BH FACTOR	1.3
# OF YEARS TO SWITCH REPLACEMENT	15
# OF YEARS TO PROCESSOR EXHAUST	15
PROCESSOR UTILIZATION AT CUTOVER	20
PROCESSOR UTILIZATION AT FIFTH YEAR	30
PROCESSOR UTILIZ. AT SWITCH REPLACE.	50
ANALOG TRUNKS:	
NUMBER OF TRUNKS	
ADMINISTRATIVE FILL FACTOR	
ABSBH O+T CCS PER TRUNK	
ABSBH O+T CALLS PER TRUNK	
DIGITAL TRUNKS:	
NUMBER OF TRUNKS	21491
ADMINISTRATIVE FILL FACTOR	90
ABSBH O+T CCS PER TRUNK	21
ABSBH O+T CALLS PER TRUNK	18.15
SS7:	
INITIAL YEAR SS7 INSTALLATION	1993
ECONOMIC LIFE OF SS7 EQUIPMENT	15
INITIAL YEAR LINK PAIR INSTALLATION	1993
LINK PAIR PERCENT UTILIZATION -INITIAL	10
LINK PAIR PERCENT UTILIZATION -END	40

WORKPAPER

PART _____ B _____

Page __83__ of __89__

Compliance Filing

Fixed RTU (Discounted)

5ESS

Urban	\$	3,904,766
Suburban	\$	13,640,315
Rural	\$	5,379,249
Statewide	\$	22,924,330
Tandem	\$	4,624,703

Per Line/Trunk (Discounted)

Lines	\$	3.85
Centrex	\$	43.89
Ringmate	\$	52.36
ISDN Basic	\$	250.00
ISDN Primary	\$	3,000.00

End Office SCIS & Other Total Outputs

		URBAN	SUBURBAN	RURAL	Statewide
Line # SCIS Non ISDN:					
1.	G.S.	\$ 3,274,372	\$ 10,229,933	\$ 4,691,326	\$ 18,195,631
2.	SM EPHC	\$ 1,132,281	\$ 1,298,580	\$ 478,306	\$ 2,909,166
3.	A+C	\$ 4,121,693	\$ 6,965,467	\$ 2,194,615	\$ 13,281,775
4.	LINE CCS	\$ 5,185,920	\$ 7,911,156	\$ 2,453,569	\$ 15,550,645
5.	Term Call	\$ 5,149	\$ 11,769	\$ 6,951	\$ 23,869
6.	Trunk CCS	\$ 1,326,941	\$ 1,586,609	\$ 475,602	\$ 3,389,151
7.	SS7 Link	\$ 280	\$ 1,398	\$ 559	\$ 2,237
8.	SM EPHC - UMBILICAL	\$ 153,971	\$ 239,378	\$ 126,271	\$ 519,619
9.	UMBILICAL TRUNK CCS	\$ 1,015,381	\$ 1,595,696	\$ 600,870	\$ 3,211,948
10.	INTRA-CLUSTER CCS	\$ 26,598	\$ 19,339	\$ 5,551	\$ 51,488
11.	TOTAL Non-ISDN	\$ 16,242,586	\$ 29,859,325	\$ 11,033,620	\$ 57,135,529
(SUM L1 TO L10)					
SCIS ISDN Investments:					
12.	SM Real Time EPHC	\$ 55,321	\$ 15,300	\$ -	\$ 70,626
13.	BRI - U Card	\$ 725,844	\$ 409,774	\$ -	\$ 1,135,618
14.	ISDN LINE CCS	\$ 126,659	\$ 90,422	\$ -	\$ 217,082
15.	On-Demand B CCS			\$ -	
16.	PRI D CHANNEL	\$ 103,046	\$ 20,170	\$ -	\$ 123,216
17.	PRI B CHANNEL	\$ 142,258	\$ 30,052	\$ -	\$ 172,310
18.	D CH. TERM. ACC. PPS	\$ 76,961	\$ 284,237	\$ -	\$ 361,197
19.	PPB CH. ACCESS PPS	\$ 23,150	\$ 9,743	\$ -	\$ 32,894
20.	On-Demand User Acc.PPS	\$ -	\$ -	\$ -	\$ -
21.	ADD'L BRI PPB CH.	\$ -	\$ -	\$ -	\$ -
22.	ADD'L D CH. TERM.	\$ -	\$ -	\$ -	\$ -
23.	XAT PPS				
24.	XAT Channel				
25.	TOTAL ISDN	\$ 1,253,239	\$ 859,698	\$ -	\$ 2,112,943
(SUM L12 TO L24)					
26.	Total Local Switch - SCIS (L11 + L25)	\$ 17,495,825	\$ 30,719,023	\$ 11,033,620	\$ 59,248,472
27.	Remote Umbilicals (Umbilical WP Part B P88)	\$ 1,699,499	\$ 2,656,917	\$ 1,056,804	\$ 5,413,220
28.	Total Local Switch (L26 + L27)	\$ 19,195,324	\$ 33,375,940	\$ 12,090,424	\$ 64,661,692
29.	Total NTS (L3 + L6 + L13 + L16 + L17)	\$ 6,419,782	\$ 9,012,072	\$ 2,670,217	\$ 18,102,070
30.	Total TS (Usage) (L28 - L29)	\$ 12,775,542	\$ 24,363,868	\$ 9,420,207	\$ 46,559,622
31.	Fixed TS (L1 + L7 + L24)	\$ 3,274,652	\$ 10,231,331	\$ 4,691,885	\$ 18,197,868
32.	Variable TS (L30 - L31)	\$ 9,500,890	\$ 14,132,537	\$ 4,728,322	\$ 28,361,754

End Office SCIS and Other Total Outputs

VERMONT

SCIS Unit Investment Outputs

<u>Local Switch</u>	Urban	Suburban	Rural	Statewide
Analog	\$ 29.23	\$ 26.62	\$ 26.14	\$ 26.98
Digital	\$ 26.12	\$ 27.77	\$ 25.97	\$ 26.93

ISDN LINES

BRI - U LINE	\$ 205.62	\$ 209.93	USED SUBURBAN AS SURROGATE	\$ 207.15
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Trunks Digital

Digital	\$ 56.41	\$ 62.04	\$ 61.69	\$ 59.66
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PRI Channels

PRI - D Channel	\$ 1,256.65	\$ 1,260.61	USED SUBURBAN	\$ 1,257.30
PRI - B Channel	\$ 75.43	\$ 81.66	AS SURROGATE	\$ 76.45
23B + D	\$ 2,991.51	\$ 3,138.87		\$ 3,015.57

Tandem

Trunks Digital	STATEWIDE \$ 61.19
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WORKPAPER
PART ____B____
Page __85__ of __89__
Compliance Filing

TANDEMS

Line #		TOTAL
1.	G.S. \$	703,333
2.	SM EPHC \$	654,663
3.	A+C \$	-
4.	LINE CCS \$	-
5.	Term Call NA	
6.	Trunk CCS \$	1,956,491
7.	SS7 Link \$	559
8.	TOTAL Tandem \$	3,315,046
	(Sum L1 to L7)	
9.	Total NTS \$	1,956,491
	(L3 + L6)	
10.	Total TS (Usage) \$	1,358,555
	(L8 - L9)	
11.	RTU Fees \$	4,624,703
	(Switch Vendor - Fixed)	
12.	Fixed TS \$	703,892
	(L1 + L7)	
13.	Variable TS \$	654,663
	(L10 - L12)	

WORKPAPER
 PART _____ B _____
 Page ____86__ of ____89__
 Compliance Filing

	Minutes of Use												
		Urban			Suburban			Rural			Statewide		
	Number of Lines	CCS per Line	TOTAL CCS	Number of Lines	CCS per Line	TOTAL CCS	Number of Lines	CCS per Line	TOTAL CCS	Number of Lines	CCS per Line	TOTAL CCS	
A. End Office Lines:													
Total CCS	117309	4.25	498852	188109	3.73	701739	62049	3.87	239939	367466	3.92	1440529	
HOST ISDN cl CCS	2456	18.00	44214	1451	18.00	26124	0	0.00	0	3908	18.00	70337	
CCS TOTAL			543065			727862			239939			1510867	
MOU TOTAL			905109			1213104			399898			2518111	
MOU - Avg			7.56			6.40			6.44			6.78	
B. End Office Trunks:	Trunks	CCS per Line	Total CCS	Trunks	CCS per Line	Total CCS	Trunks	CCS per Line	Total CCS	Trunks	CCS per Line	Total CCS	
Total CCS	14848	21.00	311815	18032	21.00	378671	4669	21.00	98048	37549	21.00	788535	
Digital Trunk MOU - Total			519692			631118			163414			1314224	
Digital Trunk MOU - Avg			35.00			35.00			35.00			35.00	
C. Tandem:													
Total CCS	21178	21.00	444735										
Digital Trunk MOU	(= CCS * 100 / 60)		741225										
Digital Trunk MOU - Avg			35.00										
Notes:	1. MOU = Minutes of Use												
	2. CCS = Hundred Call Seconds												
	3. See Backup Paper 87A-C for inputs												

WORKPAPER
PART ____ B
Page 87 of 89

**Total Switch Life Usage Values
 N.P.V. Values - Statewide**

	Access lines Total Lines	Wghtd CCS	Trunks	ISDN BRI
Urban-Zone 1 Totals	117309	4.25	14848	2456
Suburban-Zone 2 Totals	188109	3.73	18032	1451
Rural-Zone 3 Totals	62049	3.87	4669	0
Statewide	367466	3.92	37549	3908
E.O. Trunk CCS		21.00		
ISDN BRI CCS		18.00		
Tandems			21178	
Tandem Trunk CCS	21.00			

Note:
 CCS rounded to 2 decimal places for display

Total Switch Life Usage Values N.P.V. Values - Density Zone 1

	Access Lines			CCS		Wghtd	Trunks
	Analog	Digital	Total	Analog	Digital		
Burlington	293	55328	55621	4.40	4.40	2.09	14848
Brandon	293	2823	3116	3.42	3.41	0.09	
E. Fairfield	293	580	873	4.63	4.63	0.03	
E. Enosburg Falls	293	2677	2969	3.80	4.03	0.10	
Fairfax	293	1523	1816	4.81	4.75	0.07	
Grand Isle	293	2804	3097	3.53	3.29	0.09	
Shelborne	293	4498	4791	4.40	4.40	0.18	
Salisbury	293	419	712	3.36	3.47	0.02	
Swanton	293	4261	4554	3.86	4.00	0.15	
Underhill	293	3776	4069	5.15	5.14	0.18	
Vergennes	293	2491	2784	3.30	3.84	0.09	
Winooski	293	7886	8178	3.86	3.86	0.27	
Middlebury	293	6058	6351	4.20	4.53	0.24	
Milton	293	5346	5639	4.50	4.53	0.22	
St. Albans	293	11088	11381	3.79	3.94	0.38	
Richford	293	1065	1358	3.74	3.74	0.04	
Zone 1 Totals	4685	112623	117309			4.25	14848
CCS Trunk	21.00						
BRI CCS	18.00						

ISDN BRI
2456

2456

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
npv values	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15
	0.9839	0.9525	0.9220	0.8926	0.8641	0.8365	0.8097	0.7839	0.7588	0.7346	0.7111	0.6884	0.6664	0.6451	0.6245

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

trunks ccs	maximizes at 21.00 ccs then build new trunks
trunk calls	16.0 all trunks

ISDN BRI lines	2097	2166	2238	2312	2388	2467	2548	2632	2719	2809	2901	2997	3096	3198	3304
Incrém npv access lines	2097	69	71	74	76	79	81	84	87	90	93	96	99	102	106
sum npv access lines	2456 (mou w.p.)														

ISDN ccs 18

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UMBILICAL INVESTMENTS

WORKPAPER
 PART _____ B _____
 Page __88__ of __89__
 Compliance Filing

		A	B				
5 ESS		Unit					
		Cost	Miles	Urban	Suburban	Rural	Statewide
L1	# of Umbilicals			513	802	319	1634
L2	Terminals	\$1,592.48		\$1,633,884	\$2,554,338	\$1,016,002	\$5,204,225
				(L1C*L2A)			
L3	Facility (\$/mile)	\$4.48	28.55	\$65,615	\$102,579	\$40,801	\$208,995
				(L1C*L3A*L3B)			
L4	Total			\$1,699,499	\$2,656,917	\$1,056,804	\$5,413,220
				(L2C+L3C)			

Note: Unit Investments from Transport study (DS1 Facility).

LOCAL SWITCHING COSTS**END OFFICE****Line Port Additives - Per Port**

Feature	Urban Zone 5 ESS	Suburban Zone 5 ESS	Rural Zone 5 ESS	Statewide 5 ESS
1 CTX	\$0.0000	\$0.0000	\$0.0000	\$0.0000
SCIS Memory & Hardware Investments				
2 Ringmate	\$0.0000	\$0.0000	\$0.0000	\$0.0000
3 Three-Way Calling	\$1.6616	\$1.5507	\$1.5360	\$1.5942
4 Speed Calling	\$0.0000	\$0.0000	\$0.0000	\$0.0000
5 Call Waiting	\$0.0000	\$0.0000	\$0.0000	\$0.0000
6 Call Forwarding -D/A	\$0.0000	\$0.0000	\$0.0000	\$0.0000
7 Call Forwarding -Busy	\$0.0000	\$0.0000	\$0.0000	\$0.0000
8 Call Forwarding -Var	\$0.0000	\$0.0000	\$0.0000	\$0.0000

SIGNALLING SYSTEM 7

DESCRIPTION A	SOURCE B	TELRIC C	Directly Attributable Joint Costs D	Common Costs E	Total F=C+D+E F	6% Reduction per PSB Order F * .94
SIGNALLING LINK	Part C	\$25.32	\$5.54	\$0.84	\$31.70	\$29.80
STP PORT	Part D Pg.1	\$ 754.77	\$ 171.78	\$ 26.05	\$952.60	\$895.45
LIDB QUERY (PER QUERY)	Part D Pg.	0.001089 Pg. 3	0.000110 Pg. 2	0.000017 Pg. 2	\$0.001215	\$0.001142
800 (PER QUERY)	Part D Pg.	0.000798 Pg. 3	0.000110 Pg. 2	0.000017 Pg. 2	\$0.000925	\$0.000869

Signaling Transfer Point (STP) Port TELRIC

LINE #	ITEM A	SOURCE B	VALUE C
1	STP Material Price (Discounted)	Engineering	\$7.4 M
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	STP Investment	L1 * L2	\$ 11.41
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Power Investment	L3 * L4	\$1.2 M
6	Software RTU Fees	Engineering	\$1.4 M
7	Total Investment	L3 + L5 + L6	\$14.1 M
8	STP Port Pair Capacity	Engineering	180
9	STP Utilization Factor	Engineering Estimate	0.90
10	Port-Pair Investment	(L7 / L8) / L9	\$86,793.71
11	Total Installed Port Investment	L10 / 2	\$43,396.86
12	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
13	Annual Port Cost	L11 * L12	\$ 7,854.83
14	Buildings Factor	EXH - Part E	0.1256
15	Buildings Investment	L11 * L14	\$ 5,450.65
16	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
17	Annual Buildings Cost	L15 * L16	\$ 1,202.41
16	Monthly TELRIC Cost	(L13 + L17)/12	\$ 754.77
17	Common Factor	EXH - Part E	0.0064
18	Monthly Common Cost	[(L11 + L15) * L17] / 12	\$ 26.05
19	Directly Attributable Joint Factor	EXH - Part E	0.0422
20	Monthly Directly Attributable Joint Cost	{(L11 + L15)* L19} / 12	\$ 171.78

**Service Control Point (SCP) Investment per Query
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	SCP Material Price (Discounted)	Engineering	\$1.9 M
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Switch Investment	L1 * L2	\$ 2.93
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Power Investment	L3 * L4	\$0.3 M
6	Software RTU Fees	Engineering	\$5.2 M
7	Total Investment	L3 + L5 + L6	\$8.5 M
8	SCP Capacity (Queries/Second)	Engineering	448
9	SCP Utilization Factor	Engineering Estimate	0.90
10	SCP Busy Hour (BH) Queries	L8 * L9 * 3600	1,451,520
11	Investment per BH Query	L7 / L10	\$5.82
12	Busy Hour/Total Day Ratio	Estimate	0.1
13	Annual Queries	(L10 / L12) * 252 Days	3,657,830,400
14	Investment per Query	L7 / L13	\$0.00231
15	Switch Carrying Charge Factor	EXH - Part E	0.1810
16	Cost per Query	L14 * L15	\$ 0.0004
17	Buildings Factor	EXH - Part E	0.1256
18	Buildings Investment per Query	L14 * L17	\$ 0.0003
19	Buildings Carrying Charge Factor	EXH - Part E	0.2206
20	Buildings Cost per Query	L18 * L19	\$ 0.00006
21	TELRIC Cost per Query	L16 + L20	\$ 0.000482
22	Common Factor	EXH - Part E	0.0064
23	Common Cost per Query	(L14+ L18) * L22	\$ 0.000017
24	Directly Attributable Joint Factor	EXH - Part E	0.0422
25	Directly Attributable Joint Cost per Query	(L14+L18) * L24	\$ 0.000110

**Service Control Point (SCP)
Software Expense per Query
TELRIC**

LINE #	ITEM A	SOURCE B	VALUE C
1	800 Software Expense	Engineering	\$1.2 M
2	LIDB Software Expense	Engineering	\$2.2 M
3	SCP Capacity (Queries/Second)	Engineering	448
4	SCP Utilization Factor	Engineering Estimate	0.90
5	SCP Busy Hour (BH) Queries	$L3 * L4 * 3600$	1,451,520
6	800 Software Expense per BH Query	$L1 / L5$	\$ 0.80
7	LIDB Software Cost per BH Query	$L2 / L5$	\$ 1.53
8	Annual Queries	WP - Part D, Pg. 2	3,657,830,400
9	800 Software Expense per Query	$L1 / L8$	\$ 0.00032
10	LIDB SoftwareExpense per Query	$L2 / L8$	\$ 0.00061
11	SCP Investment Related Cost per Query	WP - Part D, Pg. 2	\$ 0.00048
12	Total 800 TELRIC Cost per Query	$L9 + L11$	\$ 0.000798
13	Total LIDB TELIC Cost per Query	$L10 + L11$	\$ 0.001089

END OFFICE ELEMENTS

LINE #	ITEM A	SOURCE B	MONTHLY COST C	6% Reduction per PSB Order C * .94 D
L1	REMOTE CALL FORWARDING	WP - PART J PAGE__1__ OF __9__ , LINE 19	\$ 1.10	\$ 1.03
L2	SIMPLIFIED MESSAGE DESK INTERFACE	WP - PART J PAGE__2__ OF __9__ , LINE 19	\$ 70.31	\$ 66.09
L3	CENTRAL OFFICE 1/0 MULTIPLEXING	WP - PART J PAGE__3__ OF __9__ , LINE 12	\$ 362.93	\$ 341.15

LINE #	ITEM A	SOURCE B	VALUE C
1	Switch Material Investment	WP - Part B, Pg. 85	\$ 26.93
2	Installation Factor	WP - Part B, Pg. 74	1.5424
3	Installed Switch Investment	L1 * L2	\$ 41.54
4	Power Factor	WP - Part B, Pg. 74	0.1092
5	Installed Power Investment	L3 * L4	\$ 4.54
6	Per Line Right to Use Fees	WP - Part B, Pg. 83	\$ 3.85
7	Total Installed Switching Investment	L3 + L5 + L6	\$ 49.93
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 9.04
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 6.27
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 1.38
14	Monthly TELRIC Cost	(L9 + L13)/12	\$ 0.87
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 0.03
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7+L11) * L17] / 12	\$ 0.20
19	Total Remote Call Forwarding Recurring	L14 + L16 + L18	\$ 1.10

SIMPLIFIED MESSAGE DESK INTERFACE

LINE #	ITEM A	SOURCE B	VALUE C
1	Material Investment per SMDI Port per Customer	SCIS	\$ -
2	Installation Factor	WP - Part B, PG 74	1.5424
3	Installed Investment	L1 * L2	\$ -
4	Power Factor	WP - Part B, PG 74	0.1092
5	In Place Power Investment	L3 * I4	\$ -
6	Right to Use Fees	VENDOR	\$ 3,203
7	Total Installed Investment	L3 + L5 + L6	\$ 3,203
8	Annual Switch Carrying Charge Factor	EXH - Part E	0.1810
9	Annual Switch Cost	L7 * L8	\$ 579.74
10	Buildings Factor	EXH - Part E	0.1256
11	Buildings Investment	L7 * L10	\$ 402.30
12	Annual Buildings Carrying Charge Factor	EXH - Part E	0.2206
13	Annual Buildings Cost	L11 * L12	\$ 88.75
14	Monthly TELRIC Cost	L9 + L13/12	\$ 55.71
15	Common Factor	EXH - Part E	0.0064
16	Monthly Common Cost	[(L7 + L11) * L15] / 12	\$ 1.92
17	Directly Attributable Joint Factor	EXH - Part E	0.0422
18	Monthly Directly Attributable Joint Cost	[(L7 + L11) * L17] / 12	\$ 12.68
19	Total Monthly Cost SMDI Port	L14 + L16 + L18	\$ 70.31